

COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

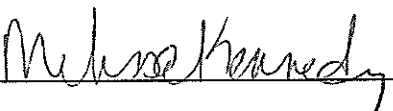
INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010568
DATE CERTIFICATION METHOD PERFORMED: April 17, 2015
DATE RECERTIFICATION DUE: October 14, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

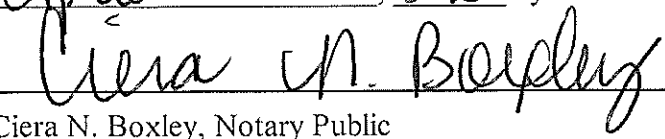
0.020 ± 0.004 g/210 L 0.150 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

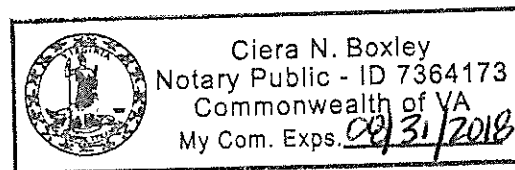

Melissa S. Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 21st day of April, 2015 by Melissa S. Kennedy


Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018 *mmB*



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
4/17/2014 To 4/17/2015

DBH
PWSH

Instrument Serial Number: 010568 As of 17-Apr-15

Maintenance Date	Certification Date	Technician Initials	Remarks
17-Apr-15	17-Apr-15	DBH (21250)	CERTIFIED.
16-Oct-14	16-Oct-14	HMS (18910)	REPLACED AND TESTED FUEL CELL MODULE, CALIBRATED AND CERTIFIED.
23-May-14	23-May-14	DBH (21250)	REPLACED AND TESTED FUEL CELL MODULE. CALIBRATED AND CERTIFIED.

DBH
NSL

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010568 Worksheet Start Date 4/17/2015
Location DFS-Central
Address 737 N 5th St Richmond VA 23219
DFS Technician Donald Hall License No. 21250

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 755 Reference Barometer (mm HG) 757
Reference Barometer(RB)Serial # 009109 RB Calibration Due 7/28/2015

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.302
0.300	0.298	0.289	0.306	Sample 2	0.302
Precision		sample min	sample max	Sample 3	0.301
0.001		0.301	0.302		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.099	0.096	0.102	Sample 2	0.099
Precision		sample min	sample max	Sample 3	0.099
0		0.099	0.099		

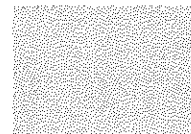
Dry gas standard Lot No. (with tank no.) AG316301-11

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010568

Certification Date

4/17/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.248
0.250	0.248	0.240	0.255	Sample 2	0.249
Precision		sample min	sample max	Sample 3	0.249
0.001		0.248	0.249		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.149	0.144	0.153	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Donald B. Hall

Date

4/17/15

Issuing Analyst

Melrose Kennedy

Date

4/17/15

DBH

NRK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010568 Test Number: 2117
Test Date: 04/17/2015 Test Time: 14:07 EDT

Technician Initials: DBH

Dry Gas Target: 0.248

Lot Number: 16114250I4-01 Exp Date: 07/05/2016

Tank Pressure: 561 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:08
BLK	0.000	14:09
CHK	0.248	14:09
BLK	0.000	14:11
CHK	0.249	14:11
BLK	0.000	14:13
CHK	0.249	14:13
BLK	0.000	14:15

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH

WJL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010568 Test Number: 2118
Test Date: 04/17/2015 Test Time: 14:17 EDT

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 16114150I3-04 Exp Date: 07/05/2016

Tank Pressure: 1031 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:17
BLK	0.000	14:18
CHK	0.149	14:19
BLK	0.000	14:20
CHK	0.149	14:21
BLK	0.000	14:22
CHK	0.149	14:23
BLK	0.000	14:24

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH
WAL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010568 Test Number: 2119
Test Date: 04/17/2015 Test Time: 14:26 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 16114080I2-03 Exp Date: 07/05/2016

Tank Pressure: 958 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:27
BLK	0.000	14:28
CHK	0.080	14:28
BLK	0.000	14:30
CHK	0.080	14:30
BLK	0.000	14:32
CHK	0.080	14:32
BLK	0.000	14:34

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH

WHL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010568 Test Number: 2120
Test Date: 04/17/2015 Test Time: 14:35 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-03 Exp Date: 05/01/2015

Tank Pressure: 125 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:38
BLK	0.000	14:39
CHK	0.019	14:40
BLK	0.000	14:41
CHK	0.019	14:42
BLK	0.000	14:43
CHK	0.019	14:44
BLK	0.000	14:45

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

DBH

11/22

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010568 Test Number: 2121

Test Date: 04/17/2015 Test Time: 14:50 EDT

Dry Gas Target: 0.298

Lot Number: AG428003-05 Exp Date: 10/07/2016

Tank Pressure: 144 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:51
CHK	0.302	14:52
BLK	0.000	14:53
CHK	0.302	14:54
BLK	0.000	14:56
CHK	0.301	14:56

Test Status: Success

Calibration CRC: DF6B720B

DBH
MK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010568 Test Number: 2122

Test Date: 04/17/2015 Test Time: 14:59 EDT

Dry Gas Target: 0.099

Lot Number: AG316301-11 Exp Date: 06/12/2015

Tank Pressure: 80 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:59
CHK	0.099	15:00
BLK	0.000	15:02
CHK	0.099	15:02
BLK	0.000	15:04
CHK	0.099	15:04

Test Status: *Success*

Calibration CRC: DF6B720B

DBH

NXL

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2016

04/17/2015

010568

04/17/2015

15:13 EDT

0.00



IntoxNet MIS Report

Report Generated 17 Apr 2015 at 15:43

2817

myL

Test Results

Instrument Serial Number 010568

Test # 002123 Subject Test

Test Location 1 Department of
Test Date 17 Apr 2015

Test Location 2 Forensic Science
Test Time 15:06
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 17 Apr 2015 End Time 15:14

Result Time 15:13

Result Date 17 Apr 2015 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:07

Data Type BLK

Sample Value 0.000

Sample Time 15:08

Data Type CHK

Sample Value 0.099

Sample Time 15:08

Data Type BLK

Sample Value 0.000

Sample Time 15:10

Data Type SUBJ

Sample Value 0.000

Sample Time 15:10

Data Type BLK

Sample Value 0.000

Sample Time 15:11

Data Type SUBJ

Sample Value 0.000

Sample Time 15:13

Data Type BLK

Sample Value 0.000

Sample Time 15:14

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG316301-11

Standard Expiration Date 06/12/2015

Tank Pressure 75

Barometric Pressure 754 mmHg

Blow Sample Number 1 Blow Duration 3.31 sec

Blow Volume 1889 cc End-of-Blow Time 15:10

Blow Sample Number 2 Blow Duration 3.81 sec

Blow Volume 2090 cc End-of-Blow Time 15:13

Tamper Evident Stamp 16ac65c6

Test Status Code 0

Test Status Success